

New York Next Steps and Watershed Implementation Plans

Susquehanna and
Chemung River Basins



Overview

- NYDEC is committed to protect and conserve water resources in New York
 - 2000 Chesapeake Bay Cooperative Effort MOU
- Susquehanna /Chemung River Basins
 - Few Impaired waters
 - NYSDEC Water Body Inventory/Priority Water Body List
 - Flooding



2007 Tributary Strategy

- Completed in 2006, adopted in 2007
 - <http://www.dec.ny.gov/lands/33279.html>
- Partnership with Upper Susquehanna Coalition
- Substantial Public Input
- Sources
 - Major: Wastewater, Agriculture, Atmospheric Deposition
 - Other: Septic, Urban Runoff



2007 Tributary Strategy

- Realistic /Practical Implementation Levels
- No commitment of time, money and staff to fully implement
- Opportunity for Water Quality/Natural Resource Protection



Tributary Strategy Goals

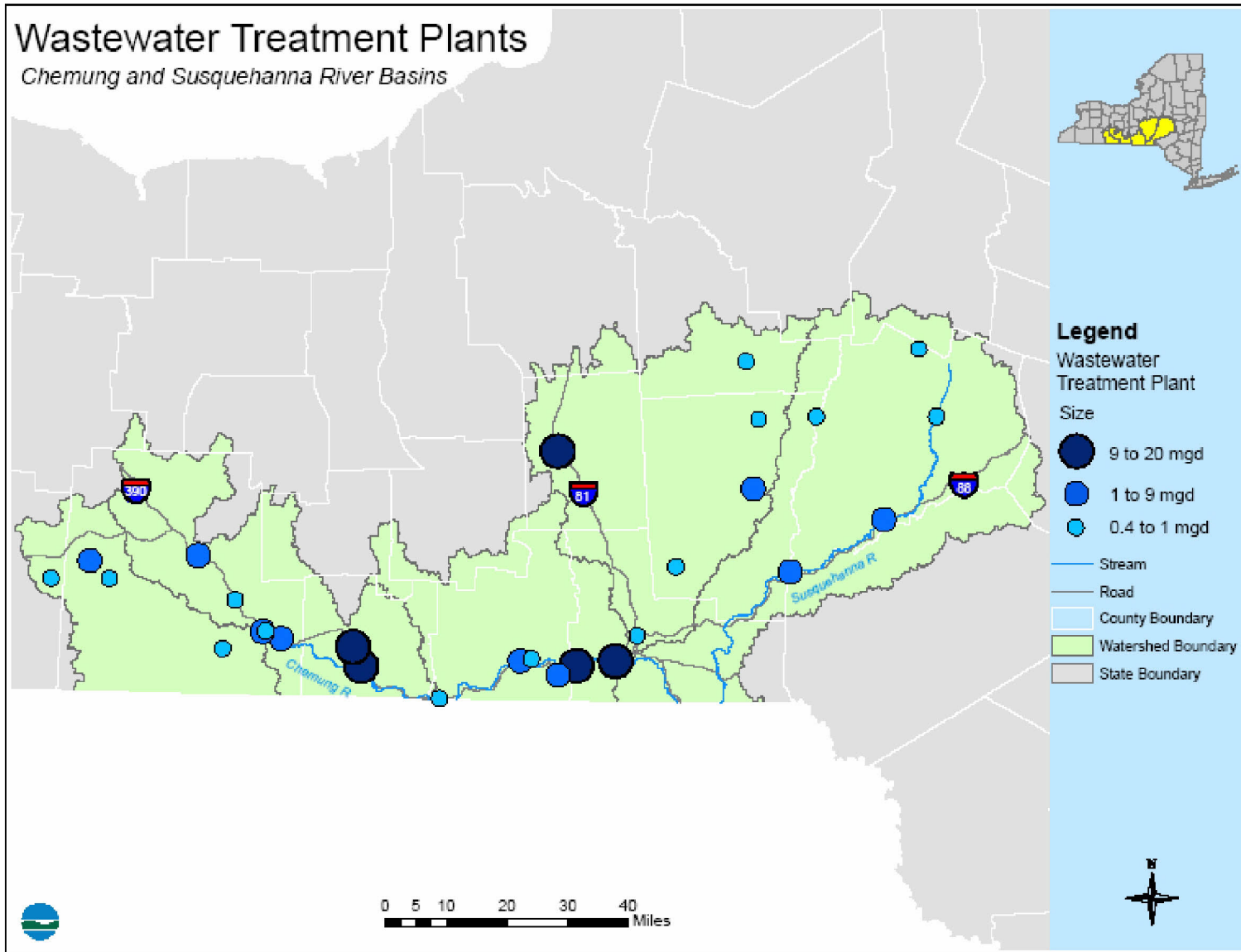
Wastewater (4 Steps)

1. Add Monitoring (Done 2005)
2. Add Compliance Schedule for Nutrient Removal Optimization (Ongoing, began 2008)
3. Identify Priority for Potential Capital Upgrades
 - BJC Project completed (\$70 million)
 - Others: +\$200 million (2005 estimate)
4. Develop Waste load Allocations if TMDL



Wastewater Treatment Plants

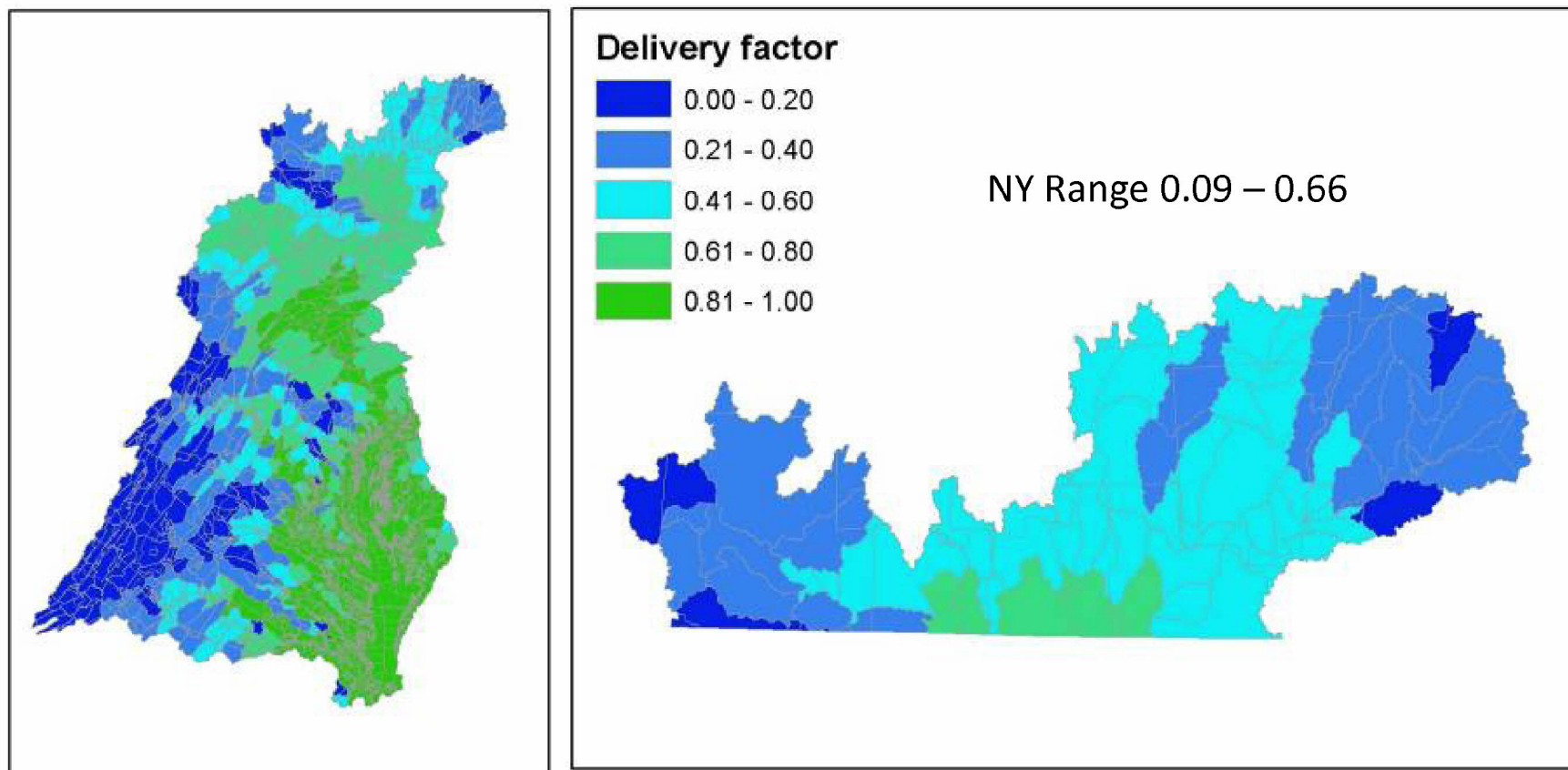
Chemung and Susquehanna River Basins



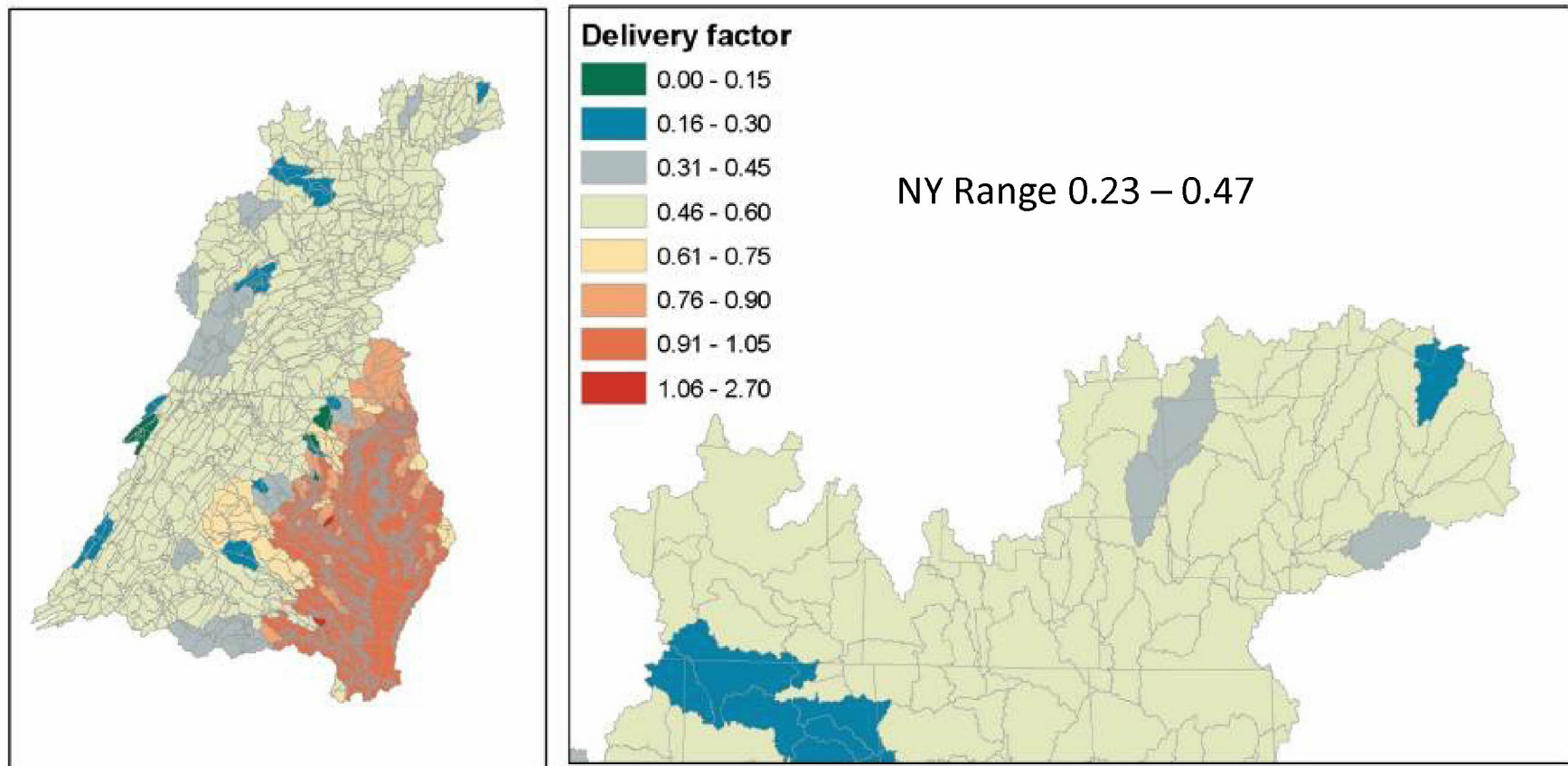
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New York TN Delivery Factor



New York TP Delivery Factor



Tributary Strategy Goals

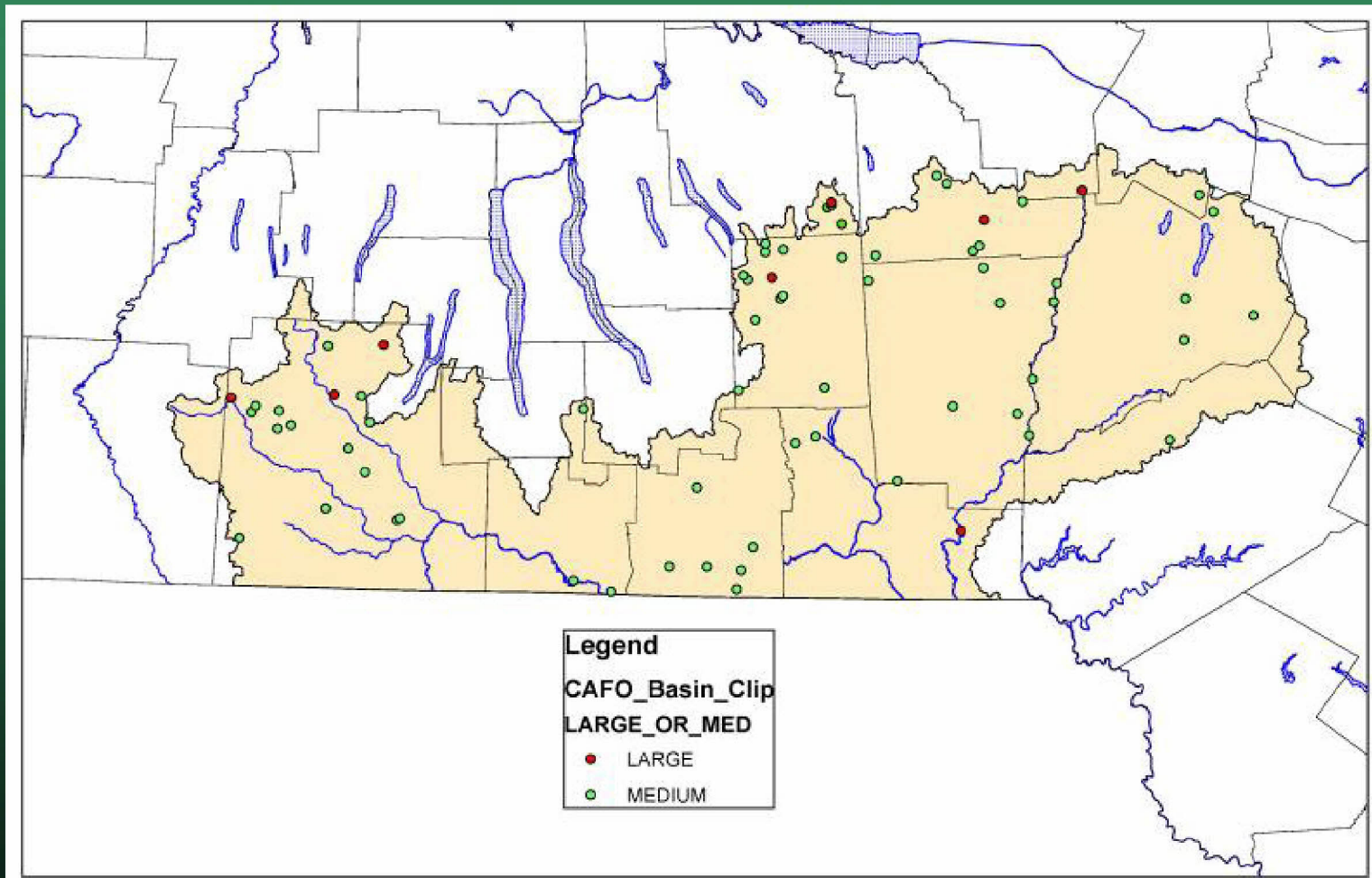
- Agriculture (+\$250 million 2005 estimate)
 - Concentrated Animal Feeding Operations (CAFO) General permit compliance
 - All farms with over 200 mature animals
 - > 30% of dairy herd in watershed
 - 10 % of cropland w/ Nutrient Management
 - Realistic set of BMPs for voluntary and incentive-based implementation
 - USDA-NRCS cost share programs
 - NY Agriculture Environmental Management Program
 - Upper Susquehanna Coalition Implementation Plan



Concentrated Animal Feeding Operations

CAFOs regulated under a general permit

preliminary locations, pending further review

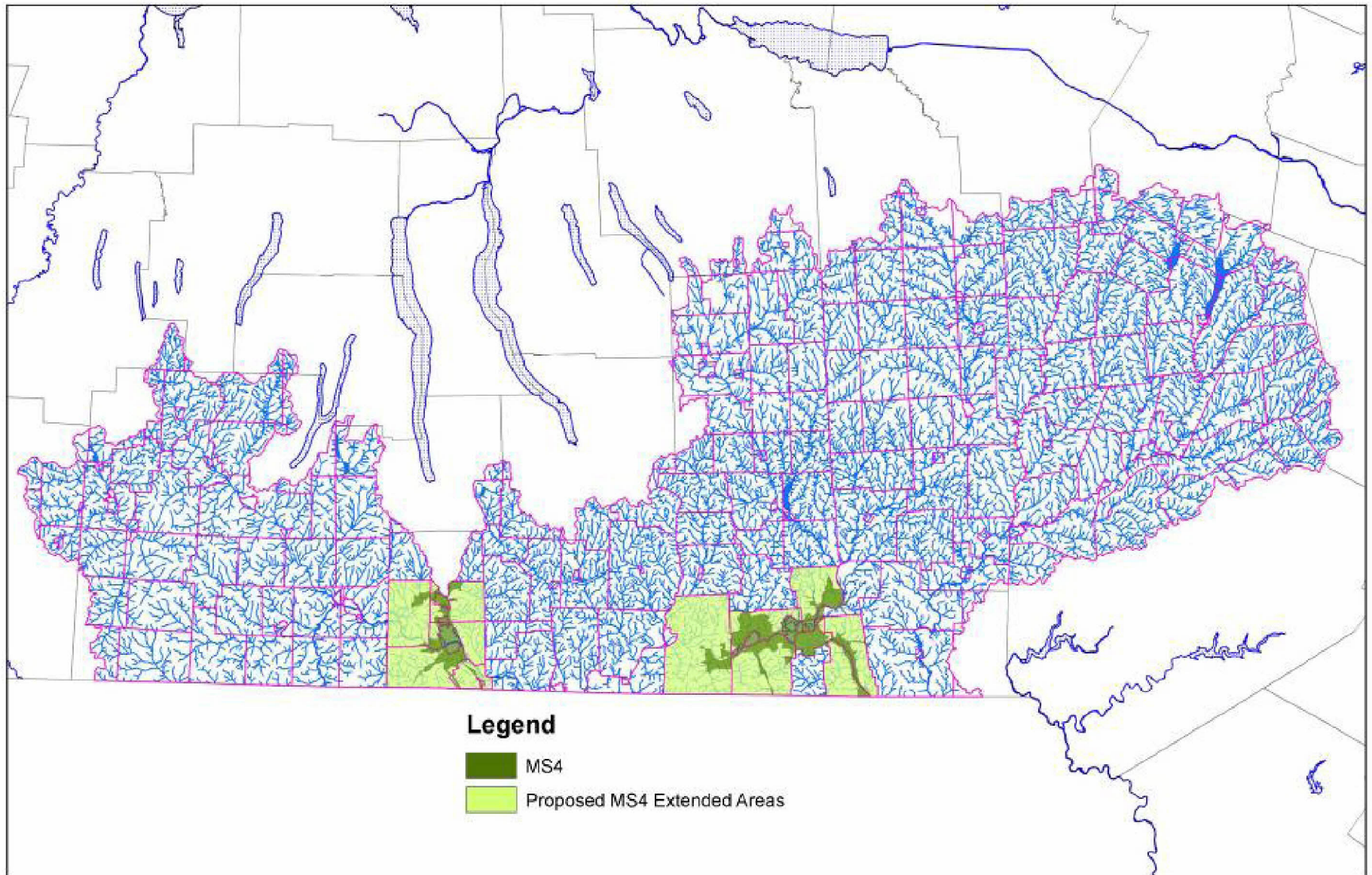


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Municipal Separate Sewer Systems

MS4s regulated under a general permit



Tributary Strategy Goals

- Stormwater
 - MS4, Construction, Industrial permit compliance
- Atmospheric Deposition
 - Heightened regulation in NY
- Septics
 - Correct failure “hot-spots”
 - Regular maintenance



Other Initiatives

- Source Controls
 - Phosphate bans: lawn fertilizer/ dishwasher detergent
- New Projects
 - ARRA Green Infrastructure
 - \$740k Forest wetland construction
 - \$240k Wastewater wetland use
 - \$800k Green Roof
 - \$120K Wastewater reed bed
 - ARRA Watershed Planning
 - \$285K Susquehanna/Chemung River Basin Ecosystem-Based Action Plan – Regional Planning Boards



What this TMDL May Mean to NY

- NYDEC expects EPA to establish a TMDL for Chesapeake Bay that includes important “fairness” caveats:
 1. Equal opportunity for growth in NY
 2. Equal time for implementation in NY
 3. Equal commitments from federal government to regulate sources and support implementation in NY



2003 Allocation Principles

1. Tributary basins with the highest impact on Bay water quality would have the highest reductions of nutrients
2. States without tidal waters would be provided some relief from Principle 1 since they do not benefit as directly from improved water quality in the Bay and its tidal tributaries
3. Previous nutrient reductions would be credited towards achievement of the cap load allocations

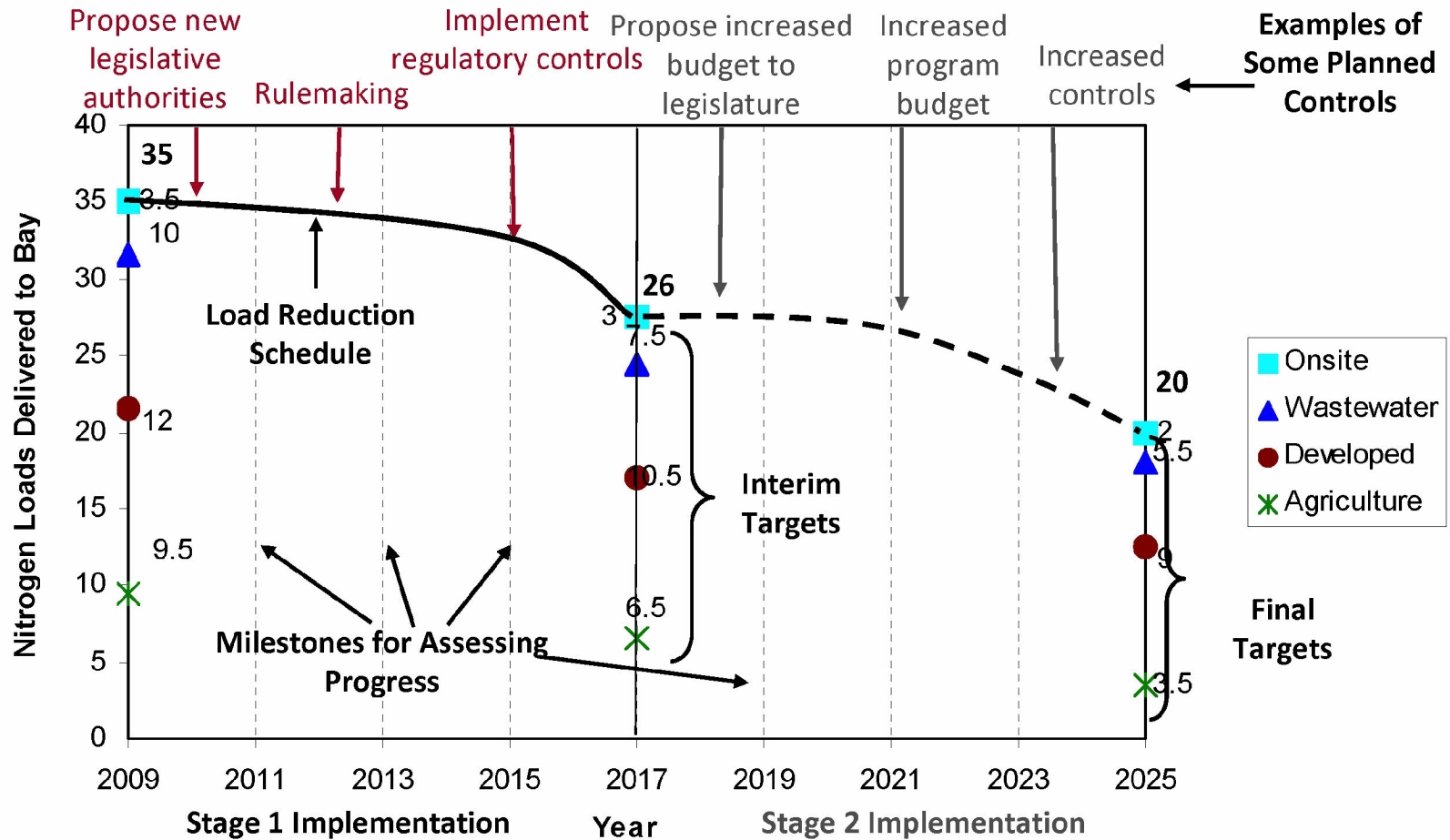


Next Steps

- Revise Tributary Strategy
 - Public Input
 - Wastewater treatment permittees
 - Agriculture (USC)
 - Other/Economic Development (Action Agenda)
 - Cost Effectiveness/ Local benefits
 - Capacity/Affordability
 - 2-yr Milestones
 - Deadline for Full Implementation
 - EPA Consequences



Example: Projected Nitrogen Delivery from Major Basin in Each Jurisdiction by Source Sector



Schedule

- TMDL Development
 - 2/2010 Final model
 - **5/2010 State Allocations**
 - 7/2010 EPA Plan Review
 - 8/2010 Draft TMDL
 - 10/2010 Public Comment
 - 12/2010 Final TMDL
- State Watershed Plan
 - **6/2010 Initial Plan**
 - 8/2010 Draft Plan
 - 11/2010 Final Plan



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